

FIGURE 1

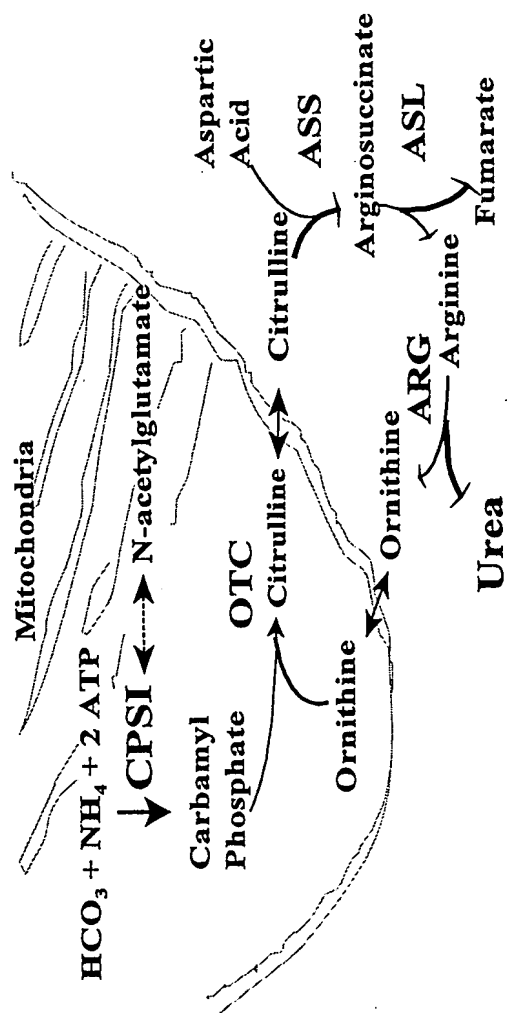


FIGURE 2

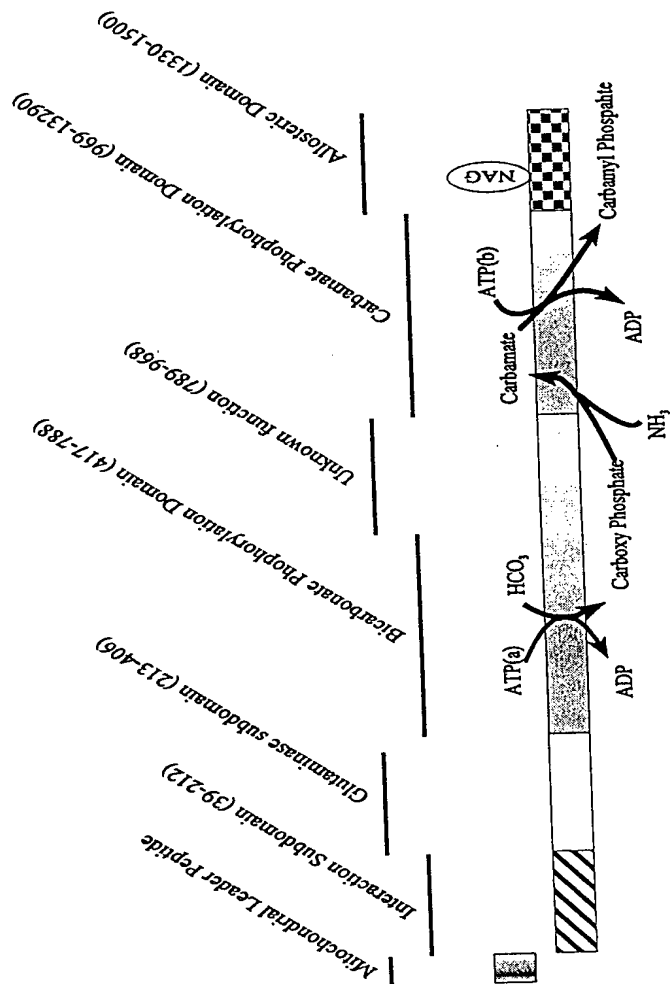


FIGURE 3

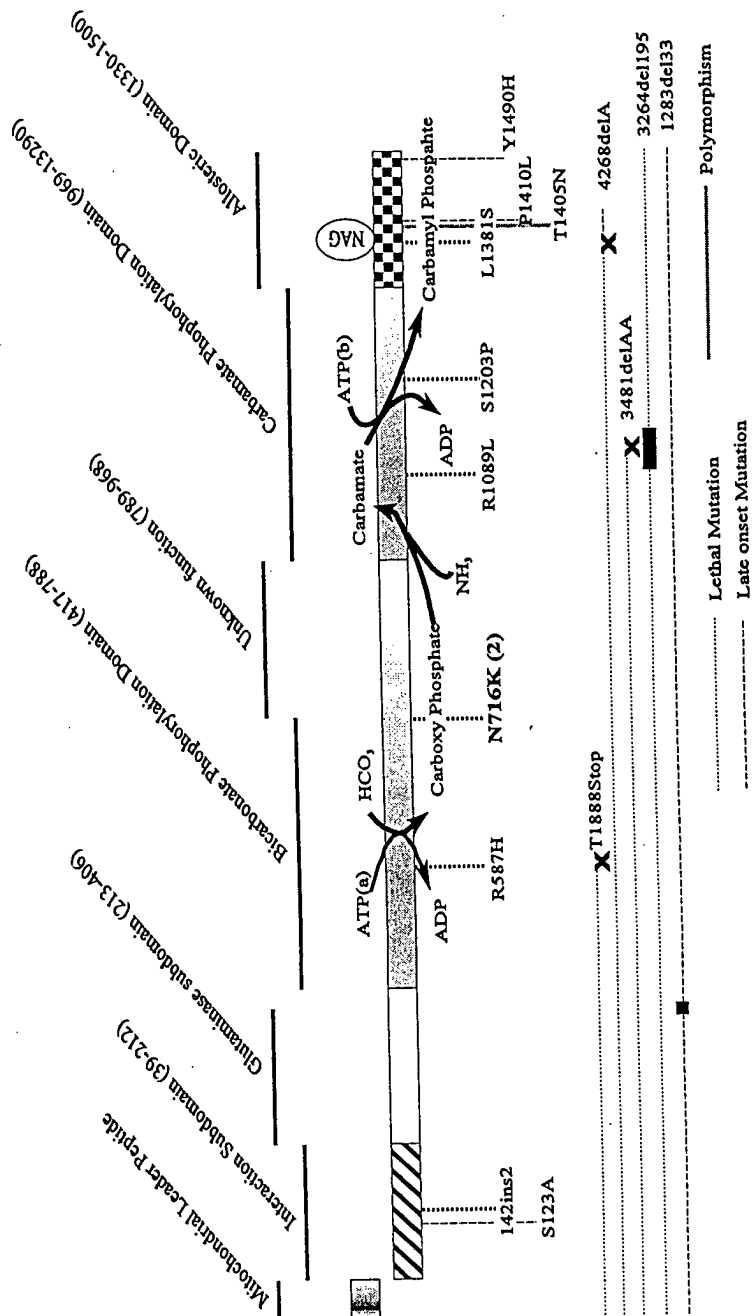


FIGURE 4

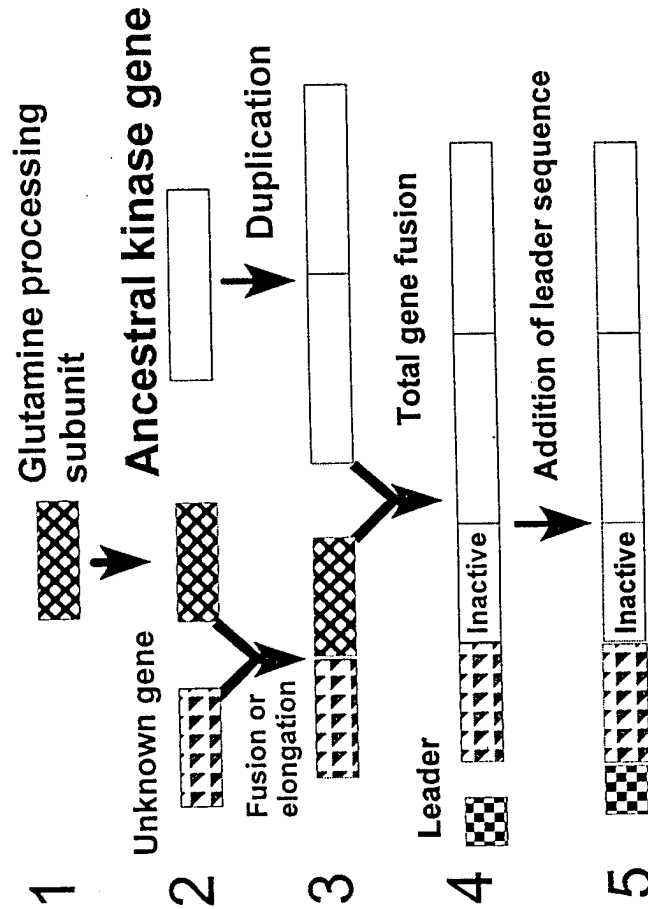


FIGURE 5

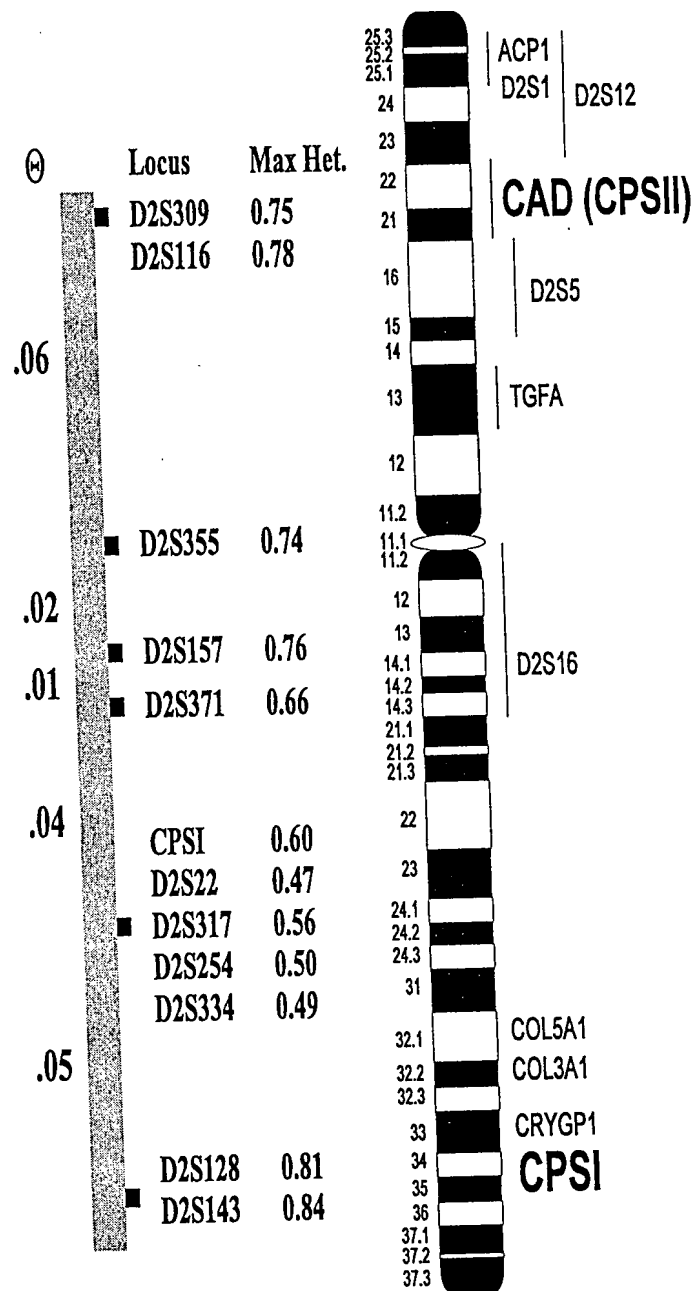


FIGURE 6

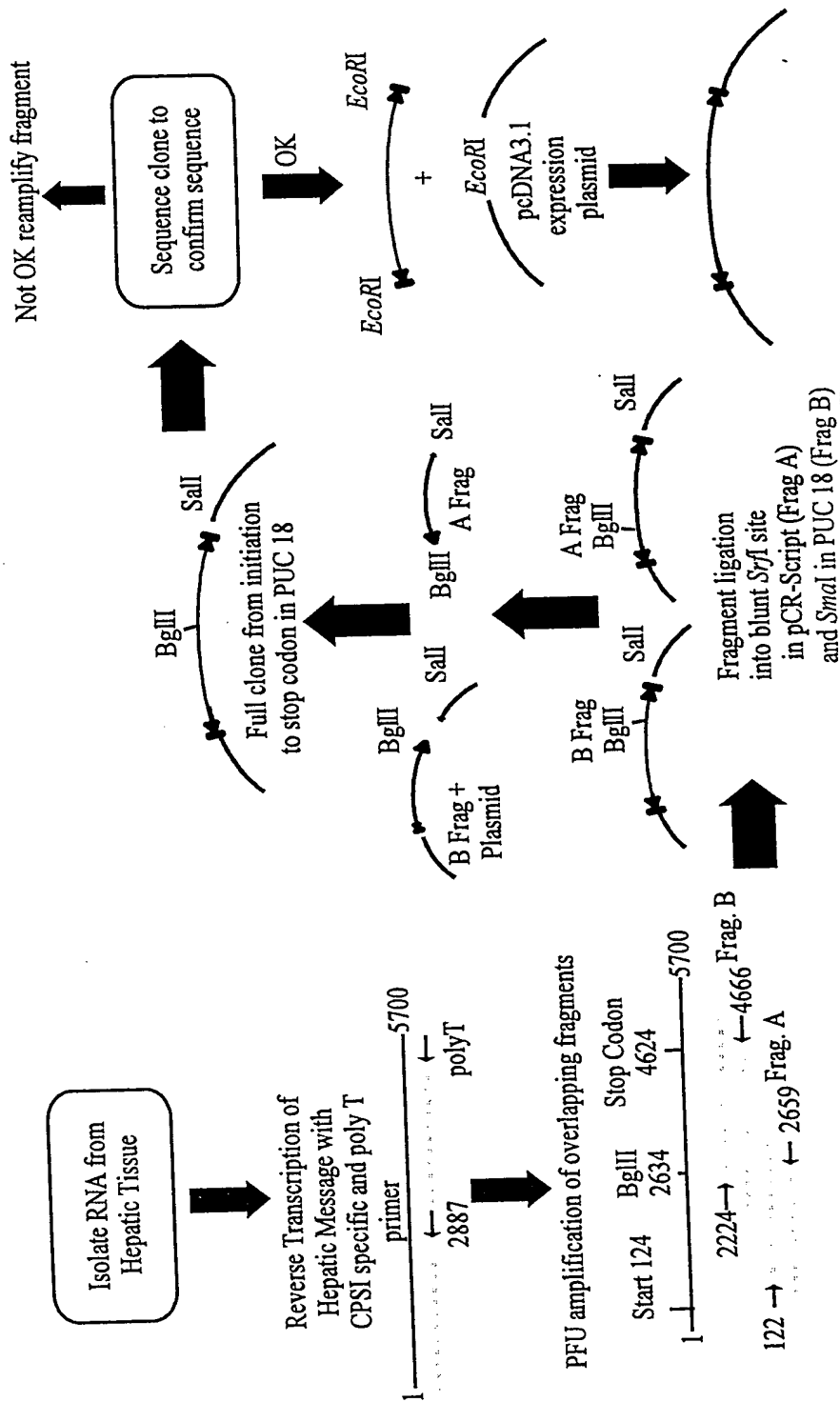
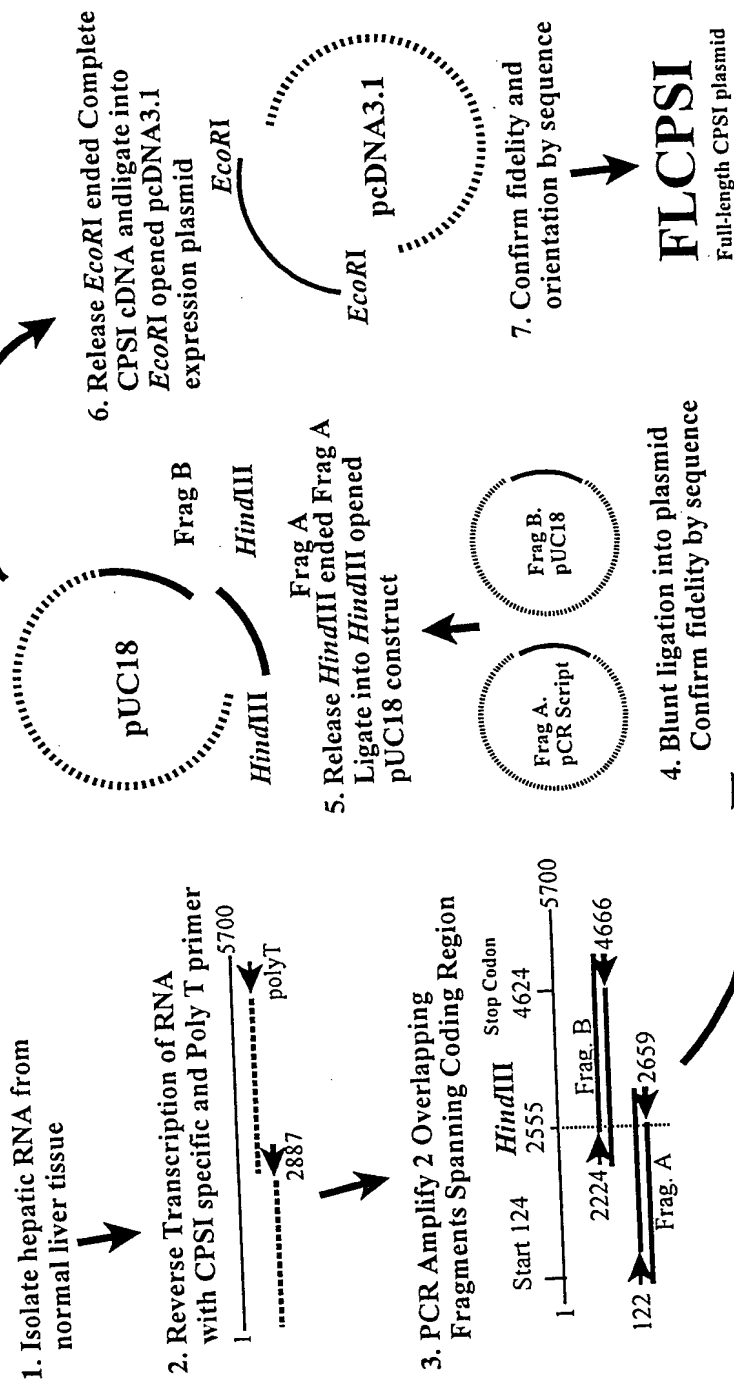


FIGURE 7

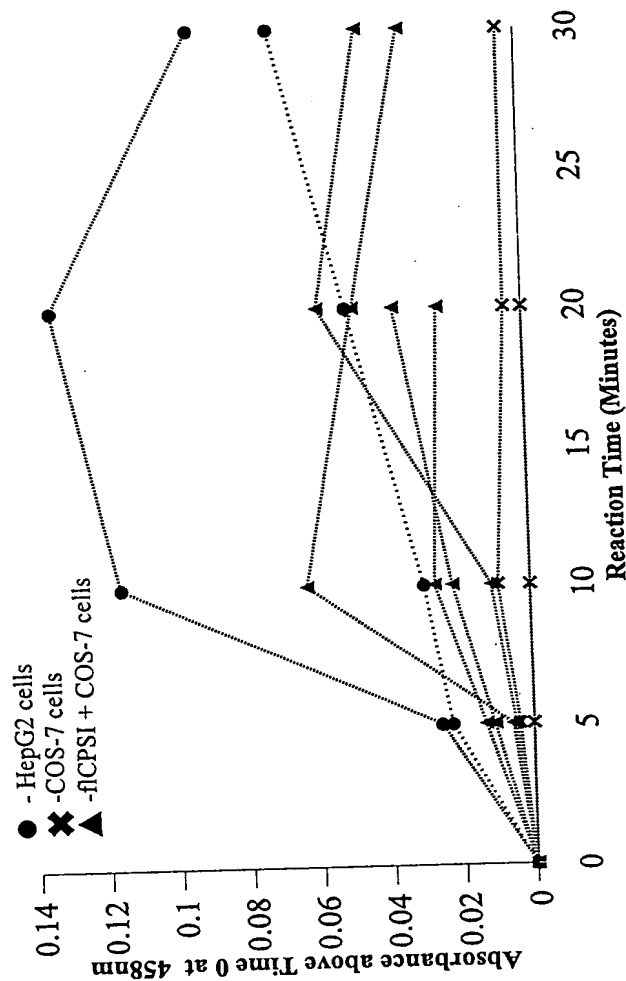
Building a Full-length CPSI cDNA



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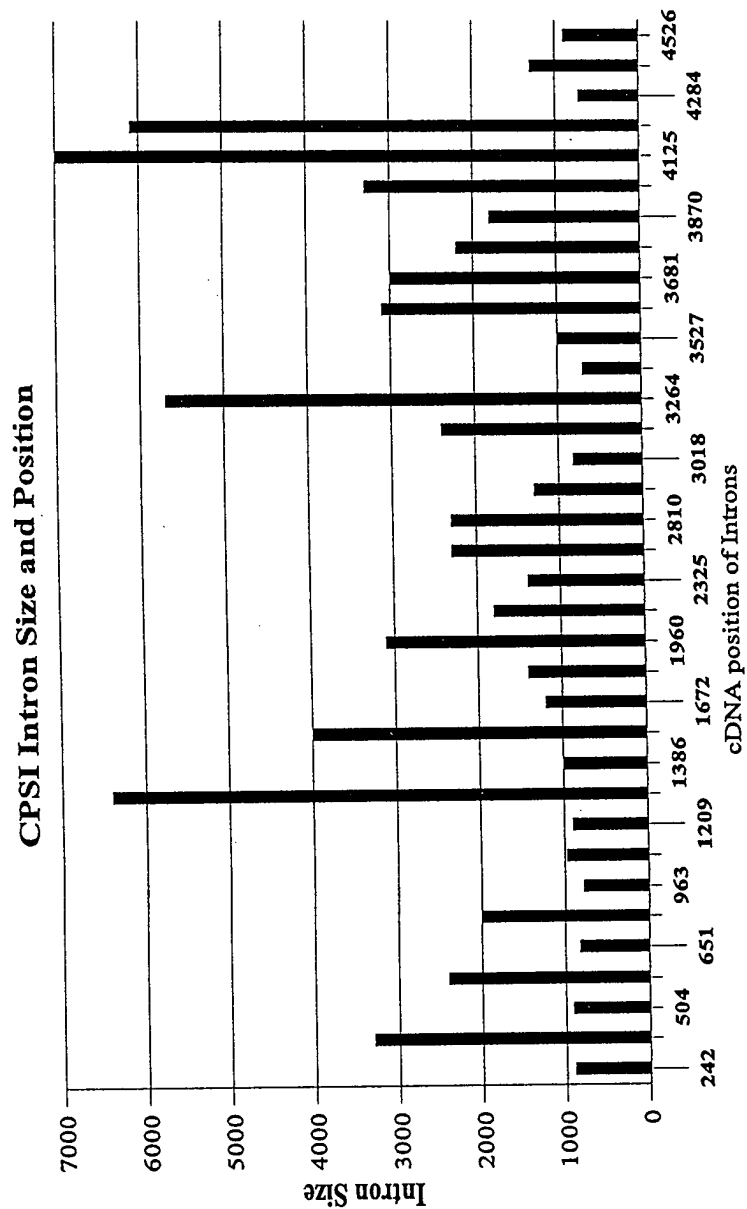
FIGURE 8



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FIGURE 9



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FIGURE 10

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1
ctacttctca tgttcagcaa tttcttcttc tttatgtttt aaattacatg ttccataaaa ataagaaat
71
cactgtgata cggtaattga ttttttcatt ttaaatgcag/(intron exon boundary)
111 (U4295)
CTGTTTGCCA CGGAAGCCAC ATCAGACTGG CTCAACGCCA ACAATGTCCC TGCCACCCCA GTGGCATGGC
181
CGTCTCAAGA AGGACAGAAT CCCAGCCTCT CTTCATCAG AAA/ (intron exon boundary)
224 GTCGGAGA GAAGGTAGTC TT L(I35a)
gtaagaacta ggcatactgt tttctgaaat aatttagagg attaactttg agaaccagta tatgaatatt
294
cacccttgctt gattgcaagt cttttaaaac aaatttaaaa atgaatacat ttgtggatga ttgtcaagtt
364 (L135b)
tcactctcca tcactatgga atacataacg tcatgtgtac atgggtgatat gaaacgtggt tcaaaatact
434
tcttagtaag gatactttcc ttgacggaaa caagtgagag tatgaagaat gtaatgcagc ac

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Primer	Begins	Size	SEQ ID NO:
U4295	119	20	8
L135a	220	21	9
L135b	370	24	10
Spanner 1	agctgtttgccacggaagcc		6
Spanner 2	cccagcctctcttccatcagaaagtaag		7

Pairs

U4295 - L135a 101 base fragment

U4295 - L135b 251 base fragment

Spanner1 - Spanner2 119 base fragment

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FIGURE 11

CPSI T1405 SEQUENCE (SEQ ID NO:4)

MTRILTAFKV VRTLKTGFGF TNVTAHQKWK FSRPGIRLLS VKAQTAHIVL EDGTMKMGYS
FGHPSSVAGE VVFNTGLGGY PEAITDPAYK GQILTMANPI IGNGGAPDTT ALDELGLSKY
LENGIKVSG LLVLDYSKDY NHWLATKSLG QWLQEEKVPA IYGVDTTMLT KIIRDKGTM
GKIEFEGQPV DFVDPNKQNL IAEVSTKDVK VYGKGNPTKV VAVDCGIKNN VIRLLVKRGA
EVHLVPWNHD FTKMEYDGIL IAGGPGNPAL AEPLIQNVRK ILES DRKEPL FGISTGNLIT
GLAAGAKTYK MSMANRGQNN PVLNITNKQA FITAQNHGYA LDNTLPAGWK PLFVNVNDQT
NEGIMHESKP FFAVQFHPEV TPGPIDTEYL FDSFFSLIKK GKATTITSVL PKPALVASRV
EVSKVLILGS GGLSIGQAGE FDYSGSQAVK AMKEENVKTV LMNPNIASVQ TNEVGLKQAD
TVYFLPITPQ FVTEVIKAEQ PDGLILGMGG QTALNCGVEL FKRGVLKEYG VKVLGTSVES
IMATEDRQLF SDKLNEINEK IAPSFIVESI EDALKAADTI GYPVMIRSAY ALGGLGSGIC
PNRETLMDLS TKAFAMTNQI LVEKSVTGWK EIEYEVVRDA DDNCVTVCNM ENVDAMGVHT
GDSVVVAPAQ TLSNAEFQML RRTSINVVRH LGIVGECNIQ FALHPTSMEY CIEVNARLS
RSSALASKAT GYPLAFIAAK IALGIPLPEI KNVVSGKTS ACFEPSLDYMV TKIPRWDLDR
FHGTSSRIGS SMKSVGEVMA IGRTFEESFQ KALRMCHPSI EGFTPRLPMN KEWPSNLDLR
KELSEPSSTR IYAIKAIDD NMSLDEIEKL TYIDKWFLYK MRDILNMEKT LKGLNSESM
EETLKRAKEI GFSDKQISKC LGLTEAQTRE LRLKKNHPW VKQIDTLAAE YPSVTNYLYV
TYNGQEHDVN FDDHGMMVLG CGPYHIGSSV EFDWCAVSSI RTLRQLGKKT VVVNCNPETV
STDFDECDKL YFEELSLERI LDIYHQEACG GCISVGGQI PNNLAVPLYK NGVKIMGTSP
LQIDRAEDRS IFS AVLDELK VAQAPWKAVN TLNEALEFAK SVDYPCLLRP SYVLGSGSAMN
VVFSEDEMCK FLEEATRVSQ EHPVVLTKFV EGAREVEMDA VGKDGRVISH AISEHVEDAG
VHSGDATLML PTQTISQGA I EKVKDATRKI AKAF AISGPF NVQFLVKGND VLVIECNLRA
SRSFPFVSKT LGVDFIDVAT KVMIGENVDE KHLPTLDHPI IPADYVAIKA PMFSWPRLRD
ADPILRCEMA STGEVACFGE GIHTAFLKAM LSTGFKIPQK GILIGIQQS F RPRFLGVAEQ
LHNEGFKLFA TEATSDWLNA NNVPATPVAW PSQEGQNPSL SSIRKLIRDG SIDLVINLPN
NNTKFVHDNY VIRRTAVDSG IPLL TNFQVT KLFAEAVQKS RKVDSKSLFH YRQYSAGKAA
X

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FIGURE 12

CPSI N1405 SEQUENCE (SEQ ID NO:2)

MTRILTAFKV VRTLKTGFGF TNVTAHQKWK FSRPGIRLLS VKAQTAHIVL EDGTMKMGYS
FGHPSSVAGE VVFNTGLGGY PEAITDPAYK GQILTMANPI IGNGGAPDTT ALDELGLSKY
LESNGIKVSG LLVLDYSKDY NHWLATKSLG QWLQEEKVPA IYGVDRMLT KIIRDKGTML
GKIEFEGQPV DFVDPNKQNL IAEVSTKDVK VYGKGNPTKV VAVDCGIKNN VIRLLVKRGA
EVHLVPWNHD FTKMEYDGIL IAGGPGNPAL AEPLIQNVRK ILES DRKEPL FGISTGNLIT
GLAAGAKTYK MSMANRGQNN PVLNITNKQA FITAQNHGYA LDNTLPAGWK PLFVNVDQNT
NEGIMHESKP FFAVQFHPEV TPGPIDTEYL FDSFFSLIKK GKATTITSVL PKPALVASRV
EVSKVLILGS GGLSIGQAGE FDYSGSQAVK AMKEENVKTV LMNPNIASVQ TNEVGLKQAD
TVYFLPITPQ FVTEVIKAEQ PDGLILGMGG QTALNCGVEL FKRGVLKEYG VKVLGTSVES
IMATEDRQLF SDKLNEINEK IAPSFAVESI EDALKAADTI GYPVMIRSAY ALGGLGSGIC
PNRETLMDLS TKAFAMTNQI LVEKSVTGWK EIEYEVVRDA DDNCVTVCNM ENVDAMGVHT
GDSVVVAPAQ TLSNAEFQML RRTSINVVRH LGIVGECNIQ FALHPTSMEY CIEVNARLS
RSSALASKAT GYPLAFIAAK IALGIPLPEI KNVVSGKTS ACFEPSLDYMV TKIPRWDLDR
FHGTSSRIGS SMKSVGEVMA IGRTFEESFQ KALRMCHPSI EGFTPRLPMN KEWPSNLDLR
KELSEPSSTR IYAIKAIDD NMSLDEIEKL TYIDKWFLYK MRDILNMEKT LKGLNSESMT
EETLKRAKEI GFSDKQISKC LGLTEAQTRE LRLKKNIHPW VKQIDTLAAE YPSVTNYLYV
TYNGQEHDVN FDDHGMMVLG CGPYHIGSSV EFDWCAVSSI RTLRQLGKKT VVNCNPETV
STDFDECDKL YFEELSLEI LDIYHQEACG GCISVGGQI PNNLAVPLYK NGVKIMGTSP
LQIDRAEDRS IFSAVLDELK VAQAPWKAVN TLNEALEFAK SVDYPCLLRP SYVLSGSAMN
VVFSEDEMCK FLEEATRVSQ EHPVVLTKFV EGAREVEMDA VGKDG RVISH AISEHVEDAG
VHSGDATLML PTQTISQGA EKVKDATRKI AKAFASGPF NVQFLVKGND VLVIECNLRA
SRSFPFVSKT LGVDFIDVAT KVMIGENVDE KHLPTLDHPI IPADYVAIKA PMFSWPRLRD
ADPILRCEMA STGEVACFGE GIHTAFLKAM LSTGFKIPQK GILIGIQQSF RPRFLGVAEQ
LHNEGFKLFA TEATSDWLNA NNVPANPVAW PSQEGQNPSL SSIRKLIRDG SIDLVINLPN
NNTKFVHDNY VIRRTAVDSG IPLL TNFQVT KLFAEAVQKS RKVDSKSLFH YRQYSAGKAA
X